

FOLIO

University and AHFMR Collaborate on Interdisciplinary Cancer Research

The Alberta Heritage Foundation for Medical Research (AHFMR) has announced the formation of a Nuclear Magnetic Resonance (NMR) Research Unit at The University of Alberta.

The new research unit brings together an interdisciplinary team with a wide range of expertise in areas including physics, surgery, radiology, and engineering. Principal investigators for the unit are Peter Allen, an eminent NMR physicist who comes to the project from the University of Nottingham, U.K., and Donald Boisvert, Associate Surgical Research Professor at this University and a Research Associate at the Cross Cancer Institute.

NMR, a rapidly developing technology for imaging the body, has the potential for revolutionizing diagnostic medicine. Unlike conventional methods of imaging (such as the CAT Scanner which uses X-rays that may be cumulatively harmful), NMR utilizes a safer interaction between a static magnetic external field, radio waves, and atomic nuclei in the body. In addition to being safer, NMR also promises to be more accurate: it allows for the detection of a disturbance (a tumor, for example) in a very small tissue sample without the need for radiation or surgical intervention.

Another capability of NMR which forecasts even greater potential for medical diagnosis is the use of NMR as a biochemical probe which can provide important information about metabolic processes from selected regions deep within the body without disturbing the tissues under examination. This, in turn, will afford

scientists the opportunity of studying how basic processes differ in normal and diseased cells for many diseases including cancer, infection, and degeneration.

The initial thrust of the University-based project will be in the area of cancer research. Team members will study NMR imaging and the biochemical application of NMR in two phases. Phase I will concentrate on developing expertise in NMR technology and research; Phase II will focus on clinical trials and patient studies. As the NMR facility evolves in Alberta, the focus of research will expand to include many more basic and clinical investigators.

A number of members of the initial research team established to work with Dr. Allen and Dr. Boisvert hold joint appointments at the University and the Cross Cancer Institute. The team consists of: Zolly Catz, Allan J. Franko, H. Richard Hooper, Frank I. Jackson, James A. Raleigh, John W. Scrimger, John R. Scott, Richard E. Snyder, and Brian D. Sykes.

Dr. Boisvert, an AHFMR Heritage Scholar, is enthusiastic about the potential of the new unit. "We expect that in three to five years we will be in a position where we can look at a tumor and get its biochemical fingerprint. We expect that our increasing understanding of metabolic processes in cancer cells will provide a basis for others to develop new, effective treatments," he explains.

Funding for the NMR Research Unit includes \$2.2 million from the AHFMR for large and small magnet systems which represent "state of the art" equipment. Additional operating funds will be provided by the Alberta



Engineering students and staff will soon begin reaping the benefits of a new fund established recently within their Faculty. The Robert M. Hardy Engineering Enrichment Fund has been created as a vehicle through which "support will be provided to those activities that add to the enjoyment, education, and motivation of (engineering) students." Robert Hardy, a member of the Faculty of Engineering from 1930 to 1971, was Chairman of Civil Engineering and, for many years, Dean of his Faculty. Internationally recognized for his many contributions to engineering, Dr. Hardy played a major role in the development of geotechnical engineering within Civil Engineering. It is appropriate, therefore, that the first moneys from the Hardy Fund have been allocated to a number of scholarships, distinguished visitors, and special projects within the field of geotechnical engineering. Much appreciated is a major donation to the fund made by Hardy Associates (1978) Ltd., an engineering consulting firm established by Dr. Hardy and active throughout western Canada. Pictured above: Ray Dubas (far left), Edmonton Branch Manager of Hardy Associates, presents Peter Adams, Dean of Engineering, with his firm's contribution to the Hardy Fund. Looking on are President Horowitz and Dr. Hardy.

Heritage Savings Trust Fund—Applied Cancer Research. The NMR Unit will be housed in the new Walter C. Mackenzie Health Sciences Centre and its research will be conducted in cooperation with the University and the Cross Cancer Institute. NMR projects are expected to begin in the summer or fall of

1983.

"NMR will revolutionize the way in which diagnostic medicine is practiced in every area and it may question entrenched concepts about the pathology of many diseases," Dr. Boisvert suggests. "We haven't even scratched the surface of what NMR can do." □

General Faculties Council

On 1 November, prior to running the agenda gamut from A to Z, Council paid tribute to the late John Forster, former Dean of the Faculty of Graduate Studies and Research (see *Folio*, 7 October 1982).

New Members

Those contributing to GFC's new look for 1982-83 are R. Brundin, Library Science; Wes Sawatzky, Vice-President (Academic) of the Students' Union; and fellow students David Martens, GS-Philosophy; Jackie Peacock, Home Economics; Ken MacDonald, Arts; Michael Kraus, Arts; Linda Crawford, Arts; Judith Hutson, Arts; Ann Befus, Business; Alanna Geis, Education; Alison Calverly, Faculté Saint-Jean; and Barbara Raleigh, Engineering.

New Degree Program

Council approved a proposal for a new degree program in Construction Engineering. The program, subject, of course, to the approval of the Board of Governors and to new program funding, would carry the degree designation "Bachelor of Science in Construction Engineering."

The program would have its own quota initially set at thirty students at the second-year level. No increase in first-year quota for the Faculty of Engineering is suggested because the Faculty has an excess of qualified first-year students who cannot obtain

entrance into the second-year quota. A target of ten post-graduate degrees per year is proposed in the extended graduate programs of Civil Engineering.

The short-term objectives are to produce a graduating class of thirty construction engineers per year within three years of program initiation and to provide post-graduate education within five years.

Taking the long view, the program will "attempt to satisfy the demands of the Alberta construction industry for professional engineers capable of undertaking the construction of physical facilities which will be required in the province in its future development."

The Alberta construction industry actively supports the program and has undertaken to provide financial support to cover approximately ten

percent of the operating costs for the first three years of operation.

Undergraduate Scholarships

In receiving the annual report of its Undergraduate Scholarship Committee, Council learned that, during 1981-82, the Alberta Heritage Scholarship Fund again substantially helped University of Alberta students. In September 1981 about 1,200 first-year entrants shared in \$1,800,000 of Heritage Rutherford Scholarships.

In addition to these scholarships, the University's awards program offered \$322,453 in undergraduate awards and \$119,800 in matriculation awards.

The number of students helped by awards totals 978. The various programs extend financial support to about fourteen percent of the eligible

full-time undergraduate enrolment.

The Budget

Council chewed and digested a report concerning the preparation of the 1982-83 operating budget and was notified that the principles and policies that will govern the 1983-84 budget will be on the plate at the 2 December Council meeting.

Parking Appeals

The 1981-82 report of the Parking Appeals Committee noted that the committee, under the auspices of the Office of the Vice-President (Facilities and Services), met nine times between September 1981 and 31 August 1982. The salient statistics are: Charged, 508; Guilty No Penalty, 128; Waived, 32; Waived and Towing Refunded, 2; Total Tickets, 670. □

EFF Distinguished Visitor

Donald Willower to Share Expertise with Educational Administrators

Donald J. Willower, internationally-recognized scholar in the field of educational administration, will visit the University as a Distinguished Visitor in the Department of Educational Administration from 22 November to 3 December. During this period Dr. Willower will take part in a number of sessions involving particular interest groups and research projects in the Faculty of Education. He will also make a major public presentation at 7:30 p.m. on Wednesday, 24 November, in 2-115 Education North. His topic will be "School Organization."

Dr. Willower has been on the faculty of Pennsylvania State University since 1959. Currently a Professor of Education (a position he has held since 1965), Dr. Willower's scholarly interests centre on the school as a social organization, and on philosophical problems associated with educational administration as a field of study and practice. His

interests are reflected in more than 100 scholarly articles that he has published to date.

Dr. Willower is actively involved in teaching numerous courses at Penn State. One of his major interests is working with graduate students, particularly doctoral students in educational administration. His many successful graduate students (there are more than sixty) hold positions in numerous fields of education: school superintendencies; directorships of units in state departments of education; various administrative positions in a variety of educational organizations; and, of course, academic positions at universities across the United States and Canada.

In his years at Penn State, Dr. Willower has held a number of key positions: elected University Senator; member of the Senate Committee on Research Policy; member of the Research Committee of the College of Education; and chairman of numerous

ad hoc and regular committees within the university's administrative system. Since June 1982 he has been professor-in-charge of a program in educational administration of the Division of Education Policy Studies.

Dr. Willower has travelled widely in the United States, Canada, Central America, and Australia, making presentations before numerous groups of school administrators and presenting papers at a variety of meetings and seminars. He has also acted as a consultant for various school systems and universities dealing particularly with the question of doctoral programs in educational administration.

More information on Dr. Willower's visit to the University may be obtained by contacting D. A. MacKay, Department of Educational Administration, telephone 432-2073 or 432-5241. □

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Canadian Studies Program: the Multidisciplinary Approach

As the Canadian Studies Program at The University of Alberta moves into its tenth year, it does so with a justifiable sense of accomplishment, and an understandable sense of relief. For in the years since it began the program has expanded its course offerings, attracted increasing numbers of top students and, at long last, received the assurance of long-term core funding so essential to its continued success.

Formally instituted in 1973 after five years of discussions among a multidisciplinary group within the Faculty of Arts, the program offers a four-year BA (Canadian Studies). The interdisciplinary approach of the program makes it unique and, according to Henry Kreisel, its chairman from 1979 to 1982, is the real strength of the program.

"The nature of the program is such that it makes students aware of the interconnections between political, literary, and historical factors that have gone into the shaping of the Canadian experience," he explains. "It allows for a kind of totality of view."

The idea for the program began to take shape in the late 1960s, the natural outcome of a growing national awareness that was evident all across the country. "Canada's Centennial made a lot of people stop and think," says Gordon Fearn, current chairman of the program. "It was a natural time to reflect on the situation as it was (formal programs in Canadian Studies at Canadian universities were virtually non-existent before 1967), and to try and improve it."

And improve it has. From a small, enthusiastic core in the Faculty of Arts, Canadian Studies has gradually broadened its scope to include on its advisory committee representatives from Education, Geography, Zoology, and the Faculté Saint-Jean. Its course offerings have expanded as well; for example, a major seminar in science and public policy in Canada will be offered for the first time beginning in January.

All those connected with Canadian Studies, however, stress that the program serves the University and the community in ways far beyond its teaching function. "We regularly respond to queries on Canadian affairs from the general public, from

government, and from colleagues and students on campus," explains Dr. Fearn. "And in so doing, the program performs an important liaison function, exchanging and forwarding information on a broad range of subjects."

In addition, the program has organized conferences and seminars to focus on important public issues. In October 1979 the program instituted an interdisciplinary seminar series, the first of which dealt with "Architecture and the Appropriate Design of Human Space," with architect Peter Hemingway. In March 1980 Canadian Studies sponsored a national conference on "Power Shift West: Myth or Reality?" And this year it is jointly sponsoring, with the Department of English, a series known as "Celebrations," which will bring to campus many of Canada's most distinguished writers and critics.

Canadian Studies is one of a very few disciplines on campus which grants a specific degree yet does not have departmental status. Is this a problem? Or is it by choice? "Very much by choice," agree Drs. Fearn and Kreisel. "From the earliest planning stages of the program we have had tremendous cooperation from all levels within the University," says Dr. Fearn, "partly, perhaps, because we are not a threat to individual departments. We are not competing for faculty or students and so departments have always been willing to help us by sharing their staff and their expertise. This is one important way of making the multidisciplinary approach work."

Yet that very approach which, as Dr. Kreisel has said, is the strength of the program, also gives rise to its greatest challenge. "By relying on faculty from various University departments (there is currently only one two-thirds position earmarked for Canadian Studies, and that on a year-by-year basis) we are really at the mercy of departmental priorities," states Dr. Kreisel. "And that has made us quite vulnerable."

Small wonder, then, that those involved with Canadian Studies were at once pleased and relieved at a recent decision made by President Horowitz. In response to a proposal put to him by Dr. Kreisel, Dr. Fearn,

and Terry White, Dean of Arts, Dr. Horowitz approved a continuing, and tenurable, part-time academic position exclusively for the Canadian Studies Program. In addition, continuous funding will be provided for program courses, basic personnel requirements, program coordination, and student advising. "If I were asked to name the one thing that gave me the most satisfaction in my term as chairman," muses Dr. Kreisel, "I think it would be being part of the group responsible for persuading the administration of the need for long-term core funding. Having our own resources goes a long way towards solidifying our program."

And what of future plans for the program? Do they include graduate

courses? Quite the contrary, it seems. Rather, plans are underway to establish a top quality junior-level course in Canadian Studies, a course that will involve students in the multidisciplinary approach from the very beginning of their University experience.

"If we can pull this off, we'll really have something to hang our hat on," concludes Dr. Fearn. "And there's no reason why we shouldn't. From the very beginning there has been enthusiastic commitment to the program. Now, with dollars firmly committed as well, we have the opportunity to broaden and enhance the scope of our program. And that's what we've been waiting for." □

Medical Sciences Building Shakes

Installation of piling of Phase II of the Walter C. Mackenzie Health Sciences Centre has given staff and students occupying the building more than the shakes. Problems occurring with vibration sensitive equipment are affecting research, laboratory, and classroom activities.

PCL Construction advises that approximately one-third of the piles have now been driven and that equipment will now be operating to the south of the Medical Sciences Building. Unfortunately, a number of piles still have to be driven in close proximity to the building.

Effective immediately piling operations will be conducted on a four

and a half day week basis. Hours of work are 7 a.m. to 7 p.m. Monday to Thursday inclusive and 7 a.m. to noon on Fridays. Changes to this schedule will be communicated to the occupants of the building by the Department of Physical Plant. Hardy Schmidt, resident Building Superintendent, Building Services Division, telephone 432-5003, will keep all departments informed and respond to queries.

Efforts are being made to complete the piling activities as soon as possible. PCL anticipates that piling will continue in the month of January 1983 although progress will be affected by weather conditions. □

United Way Campaign

As of 10 November, the United Way campaign at the University has reached \$101,910 (92.6 percent of the goal).

This has been a fine effort by the 633 people from the University staff who have given very generously this year.

The question is, if 10.5 percent of the academic and non-academic staff can give over 92 percent of the goal,

can the remaining 89.5 percent of staff, who have not contributed, provide the \$8,090 needed? This amounts to a one-time contribution of \$1.50 each.

By the time this is published, the campaign will be over, and we will know the answer.

Jim Shaw
Eileen Dunham

M. Csikszentmihalyi First Distinguished Visiting Professor in Recreation Administration

The opening weeks of the 1982-83 academic year were made memorable for the faculty and students in the Faculty of Physical Education and Recreation by the presence on campus of the Faculty's first Distinguished Visiting Professor, Mihaly Csikszentmihalyi. Dr. Csikszentmihalyi, Chairman of the Committee on Human Development, Department of Behavioural Sciences, University of Chicago, has an incredible range of scholarly interests. He has conducted research and written on such topics as: the creative process, symbolism and meaning, intrinsic motivation in work and leisure, the role of leisure in socialization, and the activities and quality of experience in everyday life. Dr. Csikszentmihalyi, who serves as an advisor on creativity to the United States Social Science Research Council, has written three books and is currently completing a fourth.

His first book, *Beyond Boredom and Anxiety: The Experience of Play in Work and Games*, was published by Jossey-Bass in 1977. This work which developed the concept "flow," the holistic sensation present when one is intrinsically motivated and acts with total involvement in an activity, has received world-wide acclaim having recently been translated into Japanese and Italian. The basic orientation of enhancing the "flow" or enjoyment derived from a broad range of activities by matching challenges or requirements of activities (tasks) with the skills or abilities of the participant, has been applied across a variety of contexts including leisure activities, industrial work situations, teaching and learning, and to strategies for improving mental health.

Dr. Csikszentmihalyi's second book, *The Creative Vision*, written in collaboration with Jacob Getzels, was published by John Wiley in 1976. It presented information derived from a study of active artists and focussed on the creative process. Currently Dr. Csikszentmihalyi is conducting a follow-up study on those artists originally studied some twenty years earlier. His interest and expertise in the broad field of socialization,

self-identity, and the basis of personal meaning is reflected in his third book, *The Meaning of Things: Domestic Symbols and the Self*, co-authored with E. Rochberg-Halton and published by Cambridge University Press (1981). This book details how objects which appear to be trivial and inconsequential to the outsider, may have tremendous symbolic and personal meaning to an individual.

Dr. Csikszentmihalyi is currently completing a manuscript, *The Turbulent Years: A Phenomenological Study of Adolescence*, which will be published next year by Basic Books, Inc. This book will present information gathered from an extensive in-depth study of the everyday life activities and accompanying experiences of Chicago youth. The background data for the book were collected by a unique time sampling methodology developed by the author, which utilizes electronic sensors (pager devices).

In addition to his own books, Dr. Csikszentmihalyi has written chapters for a number of edited books and has published broadly in a variety of scholarly journals including: *The Journal of Personality*, *Journal of Personality and Social Psychology*, *American Anthropologist*, *Social Forces*, *Journal of Mind and Behaviour*, *Public Opinion Quarterly*, *Crime and Delinquency*, *Journal of Youth and Adolescence*, and the *American Journal of Community Psychology*.

During his visit to The University of Alberta from 8 to 28 September Dr. Csikszentmihalyi presented a series of nine lectures and spent considerable time discussing research proposals and methodological issues with faculty and graduate students from the Faculty of Physical Education and Recreation and related departments. The first lecture, "Intrinsic Motivation in the Work Place," which was presented to a Recreation graduate class, focussed upon administration and managerial issues pertaining to enhancing enjoyment and productivity. This address, based upon the presenter's research in intrinsic motivation, raised questions about the advisability of

focussing upon extrinsic, for example, monetary approaches to motivation in the work place.

The second presentation, "The Power of Play," an evening address open to the general public, developed the thesis that playfulness or intrinsic motivation is critical to the quality of life. While endorsing the important role of recreation or leisure professionals in providing quality leisure opportunities to enhance the quality of life for all, especially those who are trapped in non-stimulating occupational roles, Dr. Csikszentmihalyi challenged "students of leisure" to use their knowledge to address the larger questions of how all of life can be made more enjoyable and satisfying and less alienating. The basic "flow model" based upon optimum challenges was shown to have broad applicability to a variety of industrial, educational, mental health, and everyday leisure situations.

The third presentation, "Factors Affecting the Quality of Experience: Implications for Recreation Program Planning," addressed the issue of how research on intrinsic motivation and "flow" can be utilized in the planning of recreation opportunities for diverse groups. In a follow-up session on "Leisure Values: Evaluating Leisure Opportunities," Dr. Csikszentmihalyi presented a four dimensional model he has developed for evaluating the quality of leisure programs. While presenting an approach for evaluating different opportunities within a recreational program, Dr. Csikszentmihalyi at the same time

reaffirmed his preference for a more integrated approach to improving the quality of life. Once more he challenged the Recreation students to apply their knowledge of leisure broadly in attempting to improve the general quality of life and not just to be content in offering set programs within established agencies.

In two addresses to graduate research courses Dr. Csikszentmihalyi addressed the topics, "Philosophy of Science: A Values Perspective" and "A Personal View of Science." In these addresses he drew heavily upon his own personal experiences which contributed to his unique development as a scientist. Through a series of personal anecdotes Dr.

Csikszentmihalyi succeeded in demystifying "science" and wove an intriguing story of how the personal lives and experiences of renowned scientists have profoundly influenced their scholarly development.

The topic of the seventh presentation, addressed to an audience of senior undergraduates, was "Leisure and Socialization: Enhancing the Quality of Life." In this address Dr. Csikszentmihalyi developed his perspective of adolescent socialization based upon the preeminence of intrinsic motivation. He presented observations from his recent research pertaining to how adolescents spend their time and the quality of the experience derived from their various involvements.

In his second public lecture, entitled "Creation and Recreation," Dr. Csikszentmihalyi drew a bridge between two of his areas of

Asbestos Removal to Continue

The University can now do its best by the asbestos removal program. An Alberta Advanced Education and Manpower-initiated order in council has resulted in the University receiving \$4 million for 1982-83 to cover the \$2.6 million deficit incurred primarily by the removal of asbestos from student residences including Michener Park. The remaining funds

will allow the University to pursue asbestos removal activities as indicated in a survey conducted by the Department of Physical Plant. Cameron Library will be the first stop.

An additional \$9 million is needed to complete the program; the schedule calls for work to be done in 1983-84 and in 1984-85. □

research—"creativity" and "leisure and recreation." After systematically examining different perspectives of creativity and the creative process, he graphically illustrated how many of the major technological and scientific advances have been the result of playful or leisurely investigation, not planned systematic labor. He noted that whereas the selection and increased production of new inventions may occur during times of war or other stress, the inventions or creative acts themselves generally take place during non-stressful times when leisurely or playful attitudes can be more readily adopted.

In his final presentation, "Trends and Issues in Leisure Research," Dr. Csikszentmihalyi focussed largely on methodological issues pertaining to the use of the Experience Sampling Method (ESM) which he has developed for studying everyday life experiences. This was a fitting close to the series of lectures as it left the audience with a greater understanding

and appreciation of a new methodology which could be profitably utilized in many diverse areas of leisure research.

In addition to his busy formal schedule at the University, Dr. Csikszentmihalyi also participated in a number of social and recreational events while in Edmonton. These included: a Faculty-hosted wine and cheese reception at University House, a potluck dinner with the graduate students, dinner engagements at the homes of a number of faculty members and students, a weekend of

hiking in Jasper National Park, a walk through the Capital City Park system, and an evening of socializing and far-ranging discussion on human values with a number of invited guests at the home of A. Affleck.

In summary, Dr. Csikszentmihalyi's visit to The University of Alberta campus will remain a memorable event for many faculty members and students alike. Those in attendance at his presentations could not help but be impressed by the breadth of knowledge and depth of understanding on significant human issues which he

demonstrated. Further, those who had the opportunity to get to know him on a personal basis were left with the image of a dedicated scholar of human behaviour who obviously enjoys his work and lives in his own life the principles which he espouses. In other words, through the model of his own behaviour as well as through his presentations, Dr. Csikszentmihalyi clearly illustrated how "flow" can become a part of everyday life.* □

* This article was contributed by Leonard Wankel, Department of Recreation Administration

EFF Distinguished Visitor

Aztec Expert Guest of Religious Studies

Miguel León-Portilla will be an EFF Distinguished Visitor in the Department of Religious Studies for the period 22 November to 3 December. During this time, he will give a series of ten lectures on "Aztec Religion and Culture," four of which will be public lectures held in the evening, and the remaining six of which will be University lectures held in the afternoon, but open to interested members of the public. (For details of the lecture series, see *Coming Events*, page 6.) As well as meeting with students and faculty in the Department of Religious Studies, Dr. León-Portilla will participate in graduate seminars in the Departments of Anthropology and History.

Dr. León-Portilla received his Bachelor's and Master's degrees from Loyola University, Los Angeles, and his PhD from the National University of Mexico. He has taught at universities in the Americas, Europe, and Asia and been asked to give major lectures and papers such as the 1974 Distinguished Lecture for the American Anthropological Association. He is currently Director of the Institute of Historical Research at the National University of Mexico, Mexico City, and is the author of *Aztec Thought and Culture*; and editor of *The Broken Spears: The Aztec Thought and Culture and Mexico*. He is acknowledged as one of the foremost scholars on the indigenous cultures of Mexico, and in recognition of his great contributions, he was appointed to the highly

honored position of Chronicler of Mexico City in 1974.

His lecture series at the University will centre on Aztec religion and its influence on many aspects of the culture, such as concepts of time and space, art, literature, and social organization. Part of the final lecture will be a recent videotape of current excavations of the Aztec Main Temple in Mexico City, along with an interpretation of the findings. It should be noted that Dr. León-Portilla

has established an excellent reputation both inside and outside Mexico as a public speaker with a talent for interpreting the often complex ideas and concepts of the pre-Colombian cultures to members of the general public as well as to learned colleagues.

More information on Dr. León-Portilla's visit to the University may be obtained by contacting D. Prithipaul, Chairman, Religious Studies, telephone 432-2174. □



Brenner Lecture

As part of the 75th Anniversary Celebrations, the Departments of Biochemistry and Genetics are co-sponsoring a lecture by Sydney Brenner on Monday, 22 November 1982, at 4 p.m. in Room 2-115 Education North. His subject will be "Future prospects of the genetics of higher organisms."

Dr. Brenner is one of the leaders in molecular biology and was a pioneer in some of its critical discoveries including the genetic code and the discovery of messenger RNA. He is, at present, Director of the world's leading institute devoted to molecular genetics and biochemistry, the MRC Laboratory of Molecular Biology, Cambridge.

University to Take Part in Canada Music Week

Canada Music Week 1982 will be celebrated across the country from 21 to 28 November and numerous events marking the week will be held on the University campus and throughout Edmonton.

On Sunday, 21 November, and again on the 28th, various churches in Edmonton will include hymns by Canadian composers in their Sunday services. On 22 November "New Music at the University of Alberta" will be presented in a program of music by University of Alberta professors of composition who are noted composers: Alfred Fisher, Malcolm Forsyth, and Manus Sasonkin. The program will take place in Convocation Hall, Old Arts Building, at 8 p.m.

On Wednesday, 24 November, a program by young students in the Suzuki program, sponsored by Talent Education, will be presented in 1-29 Fine Arts Building, beginning at 8 p.m. It will consist of Canadian string music and will be convened by Robert Hryciw, who teaches violin in the Suzuki program and who will speak about Canadian string music.

Two musical events will take place on Friday, 26 November. A lecture on Canadian music will be presented by Rita Steblin, Professor of Music History at The University of Alberta, at 11 a.m. in 2-32 Fine Arts Building and, at 8 p.m., a piano recital will be given by distinguished pianist Joachim Segger in Convocation Hall. The program will include music by

Schuman and Canadian composers Fisher and Pepin. A final event of the week will be a recital by students of the Alberta Registered Music Teachers' Association, Edmonton Branch taking place at Alberta College in room 144, at 8 p.m. on Saturday, 27 November.

Throughout Canada Music Week, the CBC national program "R.S.V.P.," based in Edmonton, will include Canadian music content in its broadcasts. As well, exhibits of Canadian scores, records, and brochures about Canadian composers will be presented at the Edmonton Public Library and the Music Library of The University of Alberta.

Canada Music Week events are being sponsored by: the Alberta Registered Music Teachers' Association, Edmonton Branch; the Department of Music of The University of Alberta; Talent Education; the King's College; and Alberta College.

All events are open to the public and are free of charge. More information on Canada Music Week may be obtained by contacting Violet Archer, Convenor for Canada Music Week for the Alberta Registered Music Teachers' Association, Edmonton Branch, telephone 433-7697. □



The command "Assume the position!" takes on new meaning in the noon hour yoga classes conducted by Liz McLeod, she of the talented feet (above). There are about 86,000 postures in the yoga spectrum and people of western nations attempt about 86 of them. The popular classes, held Monday, Wednesday, and Friday in the Physical Education and Recreation Complex, stress, as these students are discovering, alignment and precision. If you are feeling or would like to feel the bite of the yoga "bug," a Beginner's Yoga Workshop is being planned for Saturday, 20 November. For further information, call Liz McLeod at 484-7594 or 468-5564.

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service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events Lectures and Seminars

Department of Religious Studies

22 November, 8 p.m. Miguel Leon-Portilla, National University of Mexico, will present a series of lectures. In the first public lecture he will speak on "Mesoamerica and the Genesis of a Worldview." B1 Tory Lecture Theatre.

24 November, 8 p.m. "The Dual Universe of the Divine." B1 Tory Lecture Theatre.

29 November, 8 p.m. "The Shapes of Time and Space." B1 Tory Lecture Theatre.

1 December, 8 p.m. "Unearthing and Meaning of the Aztec Main Temple." B1 Tory Lecture Theatre.

University Lectures

22 November, 3 p.m. "The Mesoamerican Sources: Monuments, Codices and Written Texts in the Natural and Other Indigenous Languages." B2 Tory Lecture Theatre.

23 November, 3 p.m. "The Toltec Heritage of Spirituality." B1 Tory Lecture Theatre.

24 November, 3 p.m. "The Tonalli (Destines) and What is 'Appropriate and Righteous'." B2 Tory Lecture Theatre.

Faculty of Extension

19 November, 12:15 p.m. D. Prithipaul, Chairman, Religious Studies, will speak on "The Humanities and Society." Music Room, Edmonton Public Library.

Limnology and Fisheries Discussion Group

25 November, noon. John Stockner, Environment Canada, will speak on "Ultraplankton: discovery of the missing link in the metabolism of oligotrophic lakes in B.C." G217 Biological Sciences Building.

Department of Zoology

19 November, 3:30 p.m. Donald Strong, Department of Biological Sciences, Florida State University, will speak on "Community studies of phytophagous insects." CW306 Biological Sciences Building.

26 November, 3:30 p.m. John Stockner, Canadian Department of Fisheries and Oceans, West Vancouver, will give a lecture entitled "Whole lake fertilization for enhancement of sockeye salmon in central British Columbia lakes." 345 Earth Sciences Building.

Canadian Institute of Ukrainian Studies

19 November, 7:30 p.m. Ivan L. Rudnytsky will speak on "Viacheslav Lypynsky: The Conservative Challenge in Twentieth-Century Ukrainian Political Thought." Heritage Lounge, Athabasca Hall.

Committee for the Improvement of Teaching and Learning

20 November, 10 a.m. to 1 p.m. Richard Tiberius, Department of Family and Community Medicine, University of Toronto, will offer a workshop on large and small group teaching. For further information, contact Michael Shields at 432-5192.

Faculty of Pharmacy and Pharmaceutical Sciences

22 November, 3 p.m. Yoshio Ban from Hokkaido University in Sapporo, Japan, will speak on "Synthesis of Biologically Active Heterocycles by New Methods." 2022 Dentistry/Pharmacy Building.

Departments of Languages and Literatures

22 November. Alexander Zholkovsky, an internationally known scholar in the fields of theoretical linguistics and poetics from Cornell University, will give two presentations. At 11 a.m., he will speak on "On the Preparation of the Final Rhyming Word." Senate Chamber, Old Arts Building. At 3 p.m., he will speak on "Towards a Poetics of Expressiveness: On How Texts Successfully Express Themes." L4 Humanities Centre.

Departments of Biochemistry and Genetics

22 November, 4 p.m. Sydney Brenner, MRC Laboratory of Molecular Biology, Cambridge, will speak on "Future Prospects of the Genetics of Higher Organisms." 2-115 Education North.

Science Dining Club

23 November, 6 p.m. E. Boberg, Department of Speech Pathology and Audiology, will speak on "Progress and Problems in the Rehabilitation of Stutterers." For reservations, phone Donna Arbuthnott at 432-5072. Guests are welcome. Saskatchewan Room, Faculty Club.

Department of Botany

24 November, 3:30 p.m. Ross Hastings, Department of Botany, will present a seminar entitled "Vegetation patterns, soils and geomorphology of an involuted hill, Tuktoyaktuk Peninsula, N.W.T." M-137 Biological Sciences Building.

Faculty of Arts

25 November, 4 p.m. R. W. F. Wilcocks, Department of Romance Languages, will speak on "'Agamemnon was a Good Man.' Father Figures in the Theatre of Jean-Paul Sartre." B-87 Tory Building.

Alberta Heritage Foundation for Medical Research

25 November, 4 p.m. Daniel Axelrod, Biophysics Research Institute, University of Michigan, will present a lecture entitled "The Clustering of Acetylcholine Receptors on Biological Membranes." This lecture is being hosted by the Departments of Zoology and Biochemistry. 2-27 Medical Sciences Building.

Department of History

26 November, 3:05 p.m. Brian Evans will speak on "Rénshén, Root of Canadian Chinese Relations." 2-28 H.M. Tory Building.

Music

Edmonton Gregorian Chant Choir

The choir meets every Monday evening, 7 to 8:30 p.m., 3-01 Rutherford Library South. No

experience necessary. For more information, call St. Joseph's College, 433-1569.

Department of Music

18 November, 5 p.m. Art Song Interpretation. Performers are students from the class of A. Munn. Convocation Hall.

19 November, 8 p.m. Non-compulsory student recitals by Melanie Galloway on the flute and Wendy Lycan on the clarinet. Convocation Hall.

20 November, 5 p.m. A Tribute to Haydn—Part I. A faculty recital by Alexandra Munn and Ernesto Lejano on the piano. Convocation Hall.

21 November, 8 p.m. The University of Alberta Symphonic Wind Ensemble with Fordyce Pier, director. Convocation Hall.

22 November, 8 p.m. New Music at The University of Alberta—An Evening of Music by Faculty Composers. Convocation Hall.

23 November, 8 p.m. A faculty recital with Jack Wilson on the saxophone. Convocation Hall.

26 November, 8 p.m. Joachim Segger on the piano. Convocation Hall.

75th Anniversary Events

Until 30 November. The Stravinsky Display. Materials illustrating the genius of the Russian composer, Igor Stravinsky. Rutherford Galleria.

Until 21 November. Percy Erskine Nobbs Exhibition. Ring House Gallery

26 November to 19 December. World Print III Exhibition. Organized by the World Print Council. the California College of Arts and Crafts, and Osaka University of Arts. Circulated by the Smithsonian Travelling Exhibitions Service. Ring House Gallery.

26 November to 7 December. Elsie Johnson. MVA Exhibition. Ring House Gallery.

Bruce Peel Special Collections Room

Until 5 January, 1983. "A Gallimaufry of 18th century books" (in honor of the Canadian Society for Eighteenth Century Studies). B-37 Cameron Library.

Films

German Language Films

24 November, 7:30 p.m. "Rumpelstilzchen." (1955). English. Room 17, Old Arts Building. Free admission.

Radio and Television

Radio

Programs broadcast on CKUA radio 580 AM 94.9 FM

19 November, 7:30 p.m. International Development—"Recipients and Donors."

20 November, 7 p.m. University Concert Hall—"Concerts, recitals and interviews with Faculty and special guests of the Department of Music."

24 November, 7 p.m. Masks and Faces—"Sexual Self."

24 November, 7:30 p.m. Extensions—"Instructors in the Faculty of Extension discuss their subject areas."

24 November, 7:45 p.m. Perspectives—"Issues underlying current events examined in lively debate format."

26 November, 7:30 p.m. International Development—"What Individual Canadians Can Do."

Television

Programs broadcast on Q-9 and C-13.

22 November, 9 p.m. Islam in Focus.

24 November, 9 p.m. A Sound Story—"The design, fabrication, and installation of the Tracker Organ in Convocation Hall."

25 November, 9 p.m. Poisoning, Prevention at Home—"The analysis and prevention of hazardous household products."

Sports

Basketball

19 November, 7:30 p.m. Golden Bears vs. SAIT Trojans. Varsity Gym.

Hockey

26 and 27 November, 7:30 p.m. Golden Bears vs. University of Saskatchewan. Varsity Arena.

Volleyball

25 to 27 November. Golden Bear and Panda Volleyball—1982 North-Am Tournament. Thursday—evening. Friday and Saturday—all day. Varsity Gym.

Matters of Faith

Lutheran Campus Ministry Worship each Sunday at 10:30 a.m. in the Newman Centre, the west basement of St. Joseph's College. All are welcome.

SUB Theatre

Films

18 November, 8 p.m. "Ordinary People" (1980)

19 November, 8 p.m. "Raiders of the Lost Ark" (1981).

20 November, 8 p.m. "Blade Runner" (1982).

22 November, 8 p.m. "Rocky III" (1981).

23 November, 8 p.m. "The Road Warrior" (1982).

24 November, 8 p.m. "Death Trap" (1982).

29 November, 8 p.m. "Star Trek II—The Wrath of Khan" (1982).

30 November, 8 p.m. "Tron" (1982).

Dance

26 and 27 November, 8 p.m. SUB Theatre presents—The Toronto Dance Theatre. Tickets available at all BASS outlets.

Non-Credit Courses

Faculty of Extension

Applied Behavioral Sciences Division

For further information on the courses listed below, phone 432-5069

Burn-Out and Self-Care

Date: 19 November. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$50. *Instructor:* Tariq Bhatti.

Dealing with Resistance in Families with Rigid Structures

Dates: 22 and 23 November *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$100. *Instructor:* George Enns.

Stress Management for Everyday Living—Section B

Dates: 7 p.m., 26 November to 4:30 p.m., 27 November. *Fee:* \$40. *Instructor:* Don Melnychuk.

Managing Time at Work—Section B

Date: 3 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$50. *Instructor:* Tariq Bhatti.

Communicating Effectively with 3 to 12 Year-Olds

Dates: 4 and 5 December. *Time:* 9 a.m. to 4 p.m. *Fee:* \$45 *Instructors:* Lloyd Flaro and Marilyn Flaro.

Business, Industrial and Professional Division

Management Introduction to Word Processing and Word Processing Feasibility Studies

Dates: 25 and 26 November. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$165. For further information, please call 432-5067.

Is Japanese Style Management Anything New?

Dates: 29 and 30 November *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$195. For further information, call 432-5067.

Employee and Discipline and Complaint Handling

Dates: 2 and 3 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$165 For further information, call 432-5067.

Manpower Planning

Dates: 6 and 7 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$300 For further information, call 432-3037.

Real Estate Division

Should I Buy This House?

Dates: 4 Wednesdays commencing 17 November. *Time:* 7 to 9:30 p.m. *Fee:* \$30/person or \$40/couple. For more information, call 432-5060.

Occupancy Cost Control in Leasing Commercial Real Estate

Date: 20 November. *Time:* 9 a.m. to 2 p.m. *Fee:* \$55. For more information, call 432-5060.

Managing Real Estate Accounts

Date: 23 November. *Time:* 9 a.m. to 5 p.m. *Fee:* \$95. For more information, call 432-5060.

Sales and Acquisition—How to Avoid Making Costly Errors

Date: 2 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$95. For more information, call 432-5060.

Real Estate Syndication Update

Date: 14 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$95. For more information, call 432-5060.

Land Use and Public Control

Dates: 23 and 24 November. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$135. For further information, contact Lloy at 432-2912.

Annexation Techniques and Decisions

Dates: 29 and 30 November. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$135. For further information, contact Lloy at 432-2912.

Planning Law

Dates: 6, 7 and 8 December. *Time:* 9 a.m. to 4:30 p.m. *Fee:* \$175. For further information, contact Lloy at 432-2912.

Computing Services

Client Training Sessions

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses For further information, please telephone Information Services at 432-2463, or come to 352 General Services Building

Introduction to Computing at the U of A

Course number: 776. *Date:* 29 November. *Time:* 11 a.m. to 1 p.m. *Fee:* \$10. *Prerequisites:* No previous computing experience, but familiarity with a keyboard is required. *Place:* 351 GSB

AJ510 Operation and Visual Editing

Course number: 809. *Date:* 30 November, 2 December. *Time:* 11 a.m. to 1 p.m. *Fee:* \$15. *Prerequisites:* "MTS and Editor Fundamentals" and a good working knowledge of the File Editor. *Place:* 357 GSB.

Introduction to the SPSS Control Language

Course number: 857. *Date:* 1 December—1 to 4 p.m., 6 December—2 to 4 p.m. *Fee:* \$5. *Prerequisites:* "Data Preparation for Statistical Packages" is recommended; "Introduction to Computing" or a working knowledge of MTS is required. *Place:* 315/351 GSB.

MTS Overview

Course number: 827. *Date:* 30 November, 2 December. *Time:* 10 a.m. to noon *Fee:* \$15. *Prerequisites:* "MTS and Editor Fundamentals." *Place:* 315/327 GSB or 315/357 GSB.

Radiation Safety Course

The Radiation Control Committee is planning on holding one more Radiation Safety Course for individuals using or planning to use radioactive materials at The University of Alberta this year. The course is scheduled to begin on 6 December 1982. Individuals interested in attending the course can obtain registration forms from the Radiation Control Office, 432-5655.

Notices

Conference to Honor K. Dabrowski

A conference to honor the memory of Kazimierz Dabrowski (1902-1980), will be held at the University on 26 and 27 November. A noted Polish psychiatrist and psychologist, Dr. Dabrowski was the initiator of the Theory of Positive Disintegration. Dr. Dabrowski was also visiting professor at The University of Alberta from 1968 to 1979.

The first session of the conference will begin on Friday at 4 p.m., and continue from 9 a.m. to 5 p.m. on Saturday. Both sessions will be held in 2-115 Education North. All interested may attend. The registration fee is \$5. For details, contact the Department of Psychology, 432-2608.

Chairman Selection Committees

The Faculty of Arts wishes to announce that Chairman Selection Committees are being established to select new chairmen/women for the following Departments: Drama, History, Philosophy, Religious Studies, and Sociology. These committees are prepared to receive nominations and comments from members of the University community, these should be addressed to T. H. White, Dean of Arts.

Surplus Equipment

The equipment appearing in this column is available only to University Departments with University Administered Funds. For further information about the purchase of equipment or the disposal of any of your department's surplus equipment, contact Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.

1 Texas Instruments - Silent 700 Electronic Data Terminal with APL (with manual). For further information, please contact: Frances Chin, 432-2347.

Wanted: Refractometer, ABBE Model 309 or equivalent. For further information, please contact: B. Gowans, Cancer Research Unit, 432-2106.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Opportunity in Canada's North

Registered nurse required to participate in extensive epidemiologic study of health status in Northwest Territories. Will require commitment for extended periods of northern travel over next two years. Previous nursing experience in northern Canada desirable. Position requires successful candidate to be based in Edmonton. Please send resume and references to: Director, Boreal Institute for Northern Studies, Room CW401 Biological Sciences Building, The University of Alberta, Edmonton, Alberta, T6G 2E9. Salary commensurate with nursing experience.

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. As positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 10 November 1982. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in P.S.S.R.

Bookstore Clerk (\$1,030-\$1,232)—Bookstore
Clerk Steno II (\$1,106-\$1,324)—Elementary Education
Clerk Typist II (\$1,106-\$1,324)—Political Science
Purchasing Clerk II (\$1,232-\$1,487)—Bookstore
Clerk Typist III (\$1,232-\$1,487)—Psychology
Clerk Steno III (\$1,232-\$1,487)—Nursing
Medical Steno (\$1,373-\$1,682)—Psychiatry
Library Assistant II (\$1,373-\$1,682)—Geography
Programmable Typewriter Operator III (\$1,373-\$1,682)—Faculty of Extension
Departmental/Executive Secretary (\$1,548-\$1,908)—Graduate Studies and Research
Timetabling Clerk (\$1,548-\$1,908)—Registrar's Office
Food Service Worker III (\$1,324-\$1,616)—Housing and Food Services
Equipment Assistant II (\$1,373-\$1,682)—Physical Education
Building Service Worker IV (\$1,487-\$1,829)—Physical Plant (Building Services)
Technician II/Technologist I (Trust) (\$1,616-\$1,992)—Biochemistry
Technician II (Instrumentation) (\$1,616-\$1,992)—Food Science

Nurse (\$1,829-\$2,265)—University Health Service, Pediatrics (Trust)
Biology Technologist I (\$1,616-\$1,992)—Genetics
Dental Hygienist (Recurring Term) (\$1,682-\$2,078)—University Health Service
Applications Analyst (\$1,754-\$2,171)—Physical Plant (Energy Management)
Programmer/Analyst III (Trust) (\$2,472-\$3,085)—Computing Science
Instrument Mechanic (\$2,985)—Physical Plant (Utilities-Mechanical)
Controlsfitter (\$2,985)—Physical Plant (Building Maintenance)

For vacant library positions, please contact the Library Personnel Office, 5th floor, Cameron Library, 432-3339.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of thirty words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone.

Accommodations available

For sale—Charming, renovated semi. Spacious kitchen, bay window (south), fireplace. Close to University, will sell quickly! Call DeAnna Larson 481-0936. Spencer Real Estate.

For sale—Two and three bedroom homes, walking distance to University. Sharon, 435-8344. Century 21 Byron's Real Estate.

For rent—From now until spring/83. Three bedroom house. Negotiable. Mature couple preferred. Phone 484-1282. If no answer 459-6882 evenings.

Adults to share house. S.S. 433-5046.

For rent—Two, separate, basement bedrooms. Shared kitchen, bathroom, laundry facilities. I

Dec. \$120 plus utilities. 10648-84 Ave. 439-2104.

For sale—Two bedroom condominium. Walking distance University. Five appliances, underground parking. \$89,500. Joyce Byrne 435-6064. Spencer Real Estate.

For sale—Parkallen bungalow. \$89,900. Rented at \$920/month. Call DeAnna Larson 481-0936, 436-5250. Spencer's.

For rent—Westend: Three bedroom duplex, 1,500', one full/two half baths, three appliances, fireplace, garage, basement, sun-deck, patio, close schools, shopping, direct bus University. \$775/month. Evenings 484-1682.

For rent—Three bedroom, semi-bungalow walking distance University. 1 Jan.-1 July. 438-0222.

Accommodations wanted

Wanted! Three bedroom home, quiet street (Belgravia). Up to \$120,000. DeAnna Larson 481-0936, 436-5250. Spencer's.

Automobiles and others

1980 Chev Impala, four door, 305 V-8 automatic transmission. PS., PB., vinyl roof, tan interior. 62,000 km. Mint condition. \$4,600. 484-1083.

Pacer 1976, best offer. 439-3670.

Goods for sale

Unique, handwoven Christmas gifts. Open House sales 5 and 12 December, 1-5 p.m. Private showings by appointment. Custom orders taken until 12 Dec. Weaving by Dayna. 434-4407. 4003-120 St.

Services

Donnic Work Processing. Specializing in theses, manuscripts, etc. 8315-105 St. 432-1419.

Singing teacher, Eileen Turner 439-4661.

General Carpentry Work—Renovations. 434-9709 evenings.

Massage by licensed masseur. 425-0527.

Professional typing—Quality work. Call Karen 458-5503.

Enjoy a "rice table." Excellent Indonesian cuisine. Restaurant Indonesia 10169-112 Street. Inquiries and reservations 421-4291.

After School Care Centre. Parents needing care for their school aged children (fee depending on income). For more information call Grace Furuness, director, Garneau After School Centre, 10925-87 Ave. 432-0345.

Ray Salt will show recent wildlife water colors at his home until early December. 439-0964.

Typing—Theses, etc. Experienced. 455-0641.

Attention singles: Join our fascinating group! Social functions occurring 20 Nov., 18 Dec., 31 Dec. including good conversation, dancing, food, plays, music. Call Unitarian Singles 482-6795, 453-1293.

Relief from backache, stress, tension. The Krieg Clinic provides specialized medical massage and chirogymnastic. Fully qualified and German trained. Gift certificates available. Maria Krieg C.P.H.T. 436-8059. 11627-75 Ave.

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